Enrolment No.\_\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER- II(New course) • EXAMINATION (Remedial) - WINTER- 2015

Subject Code: 2722015 Date: 14/12/2015 Subject Name: Advances in concrete technology and sustainable construction practices			
Time:2:30 pm to 5:00 pm Total Marks: 7 Instructions:			70
11130	1.		
Q.1	(a)	Explain the concept of sustainable development of concrete technology.	07
	<b>(b)</b>	Explain in brief the recent advances in concrete technology. Write in short on the effect of rice husk ash on concrete. Explain the physical and chemical properties will effect on concrete.	07
Q.2	(a)	What are the workability test on self-compacting concrete as per FENARC guidelines? Explain any one of them in detail.	07
	(b)	Differentiate on high performance concrete and high strength concrete with its applicability and use.	07
	(b)	OR Elaborate on curing compounds and their effects on properties of concrete.	07
Q.3	(a) (b)	Write in short õGeo polymer concreteö. Explain the procedure of health assessment of concrete. <b>OR</b>	07 07
Q.3	(a) (b)	Write in short õReactor Powder Concreteö. Explain on roller compacted concrete.	07 07
Q.4	(a) (b)	How the epoxy resin works for rehabilitation work? Explain with it uses. Elaborate on procedure of damage assessment of structure. <b>OR</b>	07 07
Q.4	<b>(a)</b>	What are the causes of deterioration of concrete? Elaborate on the preventive	07
	(b)	measures of it. How GGBS is affected on the concrete? Explain it advantages and disadvantages with its applications.	07
Q.5	(a) (b)	Enlist the types of admixtures with its specific uses with practical application. How the light weight concrete is achieved? Explain its use with practical significance.	07 07
OR			
Q.5	(a)	Explain the procedure to achieve the recycled aggregate. What are the basic tests must perform on these aggregates? Also write in brief about the effect of these aggregates on structure.	07
	<b>(b)</b>	Write in short on õFerro cement concreteö.	07

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